

ABSTRACT OF THE DISCLOSURE

A coolant transfer machine for an automotive engine includes first and second fluid transfer systems. The first system, operated when the engine is not running, sequentially first removes at least a substantial portion of used coolant from the engine. The first system then collects in a used fluid container the used coolant as the used coolant is being removed and then replaces the removed used coolant with new coolant from a new fluid container. The second system, operated when the engine is running, simultaneously displaces at least a substantial portion of used coolant in the engine with new coolant from the new fluid container and collects the displaced used coolant in the used fluid container. A manually operable switch has a first position that enables operation of the first fluid transfer system and a second position that enables operation of the second fluid transfer system.